

Message Text

SECRET

PAGE 01 GENEVA 04321 01 OF 02 211814Z
ACTION SS-25

INFO OCT-01 ISO-00 SSO-00 NSCE-00 DODE-00 CIAE-00
INRE-00 ACDE-00 DOEE-00 /026 W
-----073674 211818Z /43
O 211748Z MAR 78
FM USMISSION GENEVA
TO SECSTATE WASHDC IMMEDIATE 7468
INFO AMEMBASSY LONDON PRIORITY
AMEMBASSY MOSCOW PRIORITY

S E C R E T SECTION 01 OF 02 GENEVA 04321

EXDIS USCTB

PASS TO DOE

E.O. 11652: XGDS-3
TAGS: PARM US UK UR
SUBJECT: CTB NEGOTIATIONS: PAPERS ON SROS

CTB MESSAGE NO. 182

THE FOLLOWING ARE THE TEXTS OF TWO INFORMAL US DEL PAPERS
PROVIDING INFORMATION ON SEISMIC RESEARCH OBSERVATORIES
(SROS) WHICH WARNKE GAVE SOVDEL AT MARCH 20 HEADS OF
DELEGATION MEETING:

BEGIN TEXT OF FIRST PAPER:

TALKING POINTS

--THE INTERIM INSTALLATIONS WE PROPOSE WOULD BE BASED ON
OUR SEISMIC RESEARCH OBSERVATORY (SRO) SYSTEM SLIGHTLY
MODIFIED TO PROVIDE CONTINUOUS, AUTHENTICATED DATA.

--SROS ARE PRESENTLY OPERATING AT EIGHT SITES DISTRIBUTED
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PAGE 02 GENEVA 04321 01 OF 02 211814Z

WORLD-WIDE. THEY ARE OPERATED BY LOCAL PERSONNEL WHO
HAVE UNDERGONE A SHORT TRAINING PROGRAM.

--THE SRO CONSISTS OF TWO BASIC UNITS: A BOREHOLE SEIS-
MOMETER WITH ASSOCIATED ELECTRONICS PACKAGE AND A SURFACE
PROCESSING AND RECORDING UNIT.

--THE BOREHOLE UNIT IS PLACED IN A 100-METER HOLE WITH A 20-CM DIAMETER. ONCE DRILLING, CASING, AND PREPARATION IS COMPLETED, INSTALLATION AND CHECK-OUT OF THE SRO TAKES A WEEK TO TEN DAYS.

--THESE UNITS (BOREHOLE PACKAGE AND SURFACE UNIT) CAN BE INTER-CONNECTED EITHER BY WIRE OR BY RADIO LINK. THE LATTER CONFIGURATION IS USED WHEN A SUITABLE (SEISMICALLY QUIET) SITE IS NOT AVAILABLE NEAR THE FACILITY WHICH HOUSES THE RECORDING UNIT.

--THE RECORDING AND PROCESSING UNIT CONTAINS TWO DIGITAL MAGNETIC TAPE RECORDERS (ONE RECORDS WHILE THE TAPE IS BEING CHANGED ON THE OTHER), FOUR VISIBLE TRACE (CONVENTIONAL SEISMOGRAM) RECORDERS, A SMALL COMPUTER, AND VARIOUS TIMING AND CONTROL COMPONENTS.

--AS PRESENTLY DEPLOYED, THE SRO SYSTEM RECORDS THE THREE COMPONENTS OF LONG PERIOD DATA CONTINUOUSLY AND ONLY SHORT PERIOD EVENTS DETECTED ON THE VERTICAL COMPONENT. IN THIS MODE A SINGLE TAPE CAN HOLD APPROXIMATELY TEN DAYS OF DATA. TO BE SUITABLE FOR AN INTERIM ISI THE SHORT PERIOD DATA MUST BE RECORDED CONTINUOUSLY. IN THIS CASE ONE MAGNETIC TAPE COULD CONTAIN APPROXIMATELY ONE DAY'S DATA.

--ROUTINE DAILY OPERATIONS--TAPE AND RECORD CHANGING,
SECRET

SECRET

PAGE 03 GENEVA 04321 01 OF 02 211814Z

CALIBRATION, TIME SYNCHRONIZATION--TAKE 1-2 HOURS.

--ALL OF THE COMMANDS (CALIBRATION, EVENT-DETECTOR PARAMETERS, GAIN LEVELS, ETC.) ARE SENT TO THE BOREHOLE AND RECORDING UNITS THROUGH A TELETYPE TERMINAL. THE TELETYPE PRINTOUT PROVIDES A PERMANENT LOG OF STATION OPERATION. END TEXT.

BEGIN TEXT OF SECOND PAPER:

SEISMIC RESEARCH OBSERVATORIES (SROS) ARE NOW OPERATING AT THE FOLLOWING LOCATIONS:

ALBUQUERQUE, NEW MEXICO BOGOTA, COLOMBIA
PERTH, WESTERN AUSTRALIA TAIPEI, TAIWAN
WELLINGTON, NEW ZEALAND CHAING MAI, THAILAND
GUAM, MARIANAS ISLANDS MASHAD, IRAN

INSTALLATIONS ARE IN PROGRESS OR ARE PLANNED AT THE FOLLOWING LOCATIONS:

ANKARA, TURKEY ERLANGEN, WEST GERMANY

SHILLONG, INDIA QUETTA, PAKISTAN
BANGUI, CENTRAL AFRICAN EMPIRE
THE SROS ARE OPERATED BY HOST COUNTRY PERSONNEL
USUALLY ASSOCIATED WITH A LOCAL UNIVERSITY OR GOVERNMENT
RESEARCH ACTIVITY.

ATTACHED ARE PHOTOGRAPHS SHOWING THE SRO SEISMOMETER
AND RECORDING SYSTEM. THE CURRENT U.S. ISI DESIGN
INCLUDES THE SRO SEISMOMETER AS THE PRIMARY SENSOR UNIT.

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S E C R E T SECTION 02 OF 02 GENEVA 04321

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END TEXT. WARNKE

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Message Attributes

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